

# INDEX TO AMERICAN SPECIES OF PHYLLOSTICTA

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In "The North American Phyllostictas" Ellis and Everhart brought together descriptions of all the species of this genus reported from North America up to 1900. About 225 species were included. During the eighteen years which have elapsed since the publication of that excellent monograph 41 new species have been described from America north of Mexico, 20 other described species have been reported for the first time, 116 new hosts have been added, transfers have been made to and from the genus, *Ascomycete* connections have been established for a few and various changes in names of species and hosts have been proposed. There is no one place in the literature where these changes have been recorded and the genus brought up to date. Saccardo lists only a few of the new species. Having found a *Phyllosticta* on a host new to himself, the collector at once turns to Ellis and Everhart. If he fails to find it there, he is confronted with the prospect of spending many hours, or even days, searching through a staggering array of periodicals to see whether it has been described. Even if he finds it in "The North American Phyllostictas" he wonders how many changes it has undergone since 1900. His difficulties are not diminished by the changes in names of the host plants since Ellis and Everhart wrote.

Having had this discouraging experience a few times in working with *Phyllosticta*, the writer finally resorted to a card index in which he has listed the new species, hosts and various changes with citations, and which he uses as a supplement to the previously mentioned monograph. It is published here with the thought that others also may find it useful in saving many tedious hours spent in combing the numberless periodicals, etc., in which a description or report of an American species may be hidden away.

The species are first listed alphabetically with citations of litera-

ture and occasional explanatory notes. For convenience in reference they are numbered serially beginning with 228, the next number after the last in "The North American Phyllostictas." Species which have been described as new from American plants since 1900 are indicated by bold face type in the citation. The comparatively few species reported from tropical America, viz., Central America, Mexico and the West Indies, are not included.

The host index which follows includes all species on which Phyllostictas have been reported, both those in Ellis and Everhart's monograph and those subsequently reported. The names of all hosts have been made to conform with the Seventh Edition of Gray's Manual of Botany except for those which occur beyond the field of the Manual.

Doubtless, a closer scrutiny of the species and comparative examination of type material will show that some of the species in this list are synonyms. But the present paper is not presented as a critical review of the genus. It is merely a ready finding index by which the collector may quickly find the literature on the *Phyllostictae* which occur on a host and then draw his own conclusions. The numbers used in the host index refer to the numbered species in "The North American Phyllostictas" and to the numbers used in the alphabetical supplementary list here given.

ALPHABETICAL LIST OF SPECIES<sup>1</sup>

<sup>1</sup>In order to conserve space the following abbreviations are used: M. = Mycologia; J. M. = Journal of Mycology; A. M. = Annales Mycologici; B. = Bulletin; R. = Report; N. Y. Mus. B. = Bulletin of the New York State Museum; N. A. Ph. = The North American Phyllostictas; B. Tor. B. C. = Bulletin of the Torrey Botanical Club. Other periodicals are abbreviated in the usual way so that there will probably be no difficulty in understanding them.

228 *Alcides* Sacc. var. *americana* Sacc. & D. Sacc., on *Populus alba* Syl. 18: 240. = *P. Alcides* E. & K. O. Nat. 2: 223. 1902.

229 *Ampelopsidis* E. & M. (N. A. Ph. 71) = *Guignardia Bidwelli* (Ell.) Viala & Ravaz. See N. Y. (Cornell) B. 293: 307 for synonymy.

230 *Antirrhini* Syd., on *Antirrhinum majus* in Mass. This species has not previously been reported from America unless it is identical with the *Phoma* reported by Stewart on this host. N. Y. (Geneva) B. 179: 109. 1900.

231 *apicalis* Davis, on *Salix lucida* in Wis. Wis. Ac. Sci. 16 (II): 761. 1909.

232 *Apocyni* Trel. (N. A. Ph. 132), on *Apocynum androsaemifolia* in N. Y. N. Y. Mus. B. 188: 49. 1916. New host.

- 233 *arida* Earle, on *Acer Negundo* in Ala. **B. Tor. B. C.** 25: 367. 1898.
- 234 *Atriplicis* Desm., on *Atriplex hastata* in Pa. **M.** 6: 33. 1914. Author believes this is either a *Macrophoma* or a *Septoria*. Reported on *Chenopodium album*. **M.** 8: 176. 1916. Also on *C. album* in Wis. **Ac. Sci.** 17 (II): 865. 1914.
- 235 *Baccharidis* Dearn. & House, on *Baccharis halimifolia* in N. Y. **N. Y. Mus. B.** 179: 29. 1915.
- 236 *Betae* Oudem., on *Beta vulgaris*. = *Phoma Betae*. **J. M.** 10: 2. 1904. = *P. tabifica*. Impf. of *Mycosphaerella tabifica* (P. & D.) Johns.? (Cf. Stevens' Fungi which cause plant diseases, p. 247.)
- 237 *bicolor* Pk., on *Rubus odoratus* in N. Y. **N. Y. Mus. R.** 43: 72. 1890.
- 238 *biformis* Heald & Wolf, on *Diospyros texana* in Texas. **M.** 3: 7. 1911.
- 239 *brassicicola* McA., on *Brassica oleracea* in Calif. Impf. of *Mycosphaerella brassicicola* (Duby) Lin. **Phytopath.** 5: 263. 1915.
- 240 *brumeliifolia* Heald & Wolf, on *Brumellia lanuginosa* in Tex. **M.** 3: 7. 1911.
- 241 *brunnea* Dearn. & Barth., on *Populus angustifolia* in Col. **M.** 9: 351. 1917.
- 242 *canescens* E. & E. (N. A. Ph. 67), on *Ribes divaricatum* in Idaho. **B. Tor. Bot. Cl.** 27: 54. 1900.
- 243 *caricicola* Sacc. & Scalia, on *Carex* sp. in Alaska. **Alas. Har. Exp.** 5: 21. 1904.
- 244 *Caricis* (Fckl.) Sacc. (N. A. Ph. 218), on *Carex trisperma* and *C. intumescens* in Wis. **Wis. Ac. Sci.** 17 (II): 865. 1914.
- 245 *Cephalanthi* Tharp, on *Cephalanthus occidentalis* in Tex. **M.** 9: 119. 1917.
- 246 *Chenopodii* Sacc., on *Chenopodium album* in N. Y. **N. Y. Mus. B.** 179: 29. 1915.
- 247 *circumscissa* Cke. (N. A. Ph. 44), on *Prunus persica* in N. Y. **Tor.** 14: 210. 1914. The host is not given in N. A. Ph. but the reference is to *exsiccati* on *Prunus demissa*.
- 248 *clypeata* E. & E., on *Pyrus Malus* in Ore. **J. M.** 8: 14. 1902.
- 249 *Collinsoniae* Sacc. & Dearn., on *Collinsonia canadensis* in Ont. **A. M.** 12: 299. 1914.
- 250 *congesta* Heald & Wolf on *Prunus* in Tex. **M.** 3: 8. 1911.
- 251 *convexula* Bubak on *Carya alba* in Mo. **J. M.** 12: 62. 1906.
- 252 *Crataegi* (Cke.) Sacc. (N. A. Ph. 82), on *Crataegus erythropoda* in N. M. **M.** 10: 253. 1918. On *C. Holmesiana* in N. Y. **N. Y. Mus. B.** 197: 49. 1918. New hosts.
- 253 *crataegicola* Sacc., on *Crataegus mollis* in N. D. **M.** 10: 218. 1918.
- 254 *cruenta* (Fr.) Kicks. (N. A. Ph. 215), on *Smilicina stellata* in N. D. **M.** 10: 218. 1918. On *S. amplexicaulis* in N. M. **M.** 8: 176. 1916. New hosts and change in authority for binomial.
- 255 *cruenta* var. *discincta* Davis on *Uvularia grandiflora* and *Oakesia sessilifolia* in Wis. **Wis. Ac. Sci.** 16 (II): 761. 1909. Also 17 (II): 867. 1914.

- 256 *cucurbitacearum* Sacc., on *Cucumis sativa* and *C. melo* in Ohio. O. B. 214: 394. Reported from various other states.
- 257 *Dearnessii* Sacc., on *Rubus triflorus* in Ont. A. M. 11: 549. 1913.
- 258 *decidua* E. & K. (N. A. Ph. 201), on *Radicula Armoracia*, *Geum canadense*, *Aralia racemosa*, *Steironema ciliatum*, *Cynoglossum officinale*, *Lappula virginiana*, *Scutellaria laterifolia*, *Nepeta hederacea*, *Stachys palustris*, *S. tenuifolia*, *Monarda punctata*, *Lycopus uniflorus*, *Mentha arvensis canadensis*, *Eupatorium perfoliatum*, *Bidens frondosa*, *Lactuca canadensis* and *Hieracium aurantiacum* in Wis. Wis. Ac. Sci. 17 (II): 867. 1914 and 18 (I): 258. 1915. New hosts. *Vernonia*, listed in N. A. Ph., is evidently a mistake for *Veronica*.
- 259 *destruens* Desm. (N. A. Ph. 40), on *Prunus melanocarpa* in N. D. M. 10: 218. 1918. Identical with *Phoma virginiana* E. & Hals. acc. to Davis. Wis. Ac. Sci. 18 (I): 79. 1915. New host.
- 260 *Dictamni* Fairm., on *Dictamnus Fraxinella* in N. Y. A. M. 8: 324. 1910.
- 261 *Diervillae* Davis, on *Diervilla Lonicera* in Wis. Wis. Ac. Sci. 16 (II): 761. 1909.
- 262 *Digitalis* Bell, on *Digitalis* in N. Y. Tor. 14: 210. 1914. On *D. purpurea* in Ont. A. M. 11: 549. 1913.
- 263 *Euonymi* Tharp, on *Euonymus atropurpureus* in Tex. M. 9: 119. 1917.
- 264 *fragaricola* Desm. & Rob., on *Fragaria grandiflora* in Ont. A. M. 11: 549. 1913.
- 265 *fraxinicola* (Curr.) Sacc. emended. J. M. 13: 51. 1907.
- 266 *Garrettii* Syd., on *Senecio disparis* in Utah. A. M. 6: 484. 1908.
- 267 *grisea* Pk., on *Crataegus praecox* in N. Y. N. Y. Mus. B. 67: 29. 1903.
- 268 *helliboricola* var. *Coptidis* Sacc. & Scalia, on *Coptis trifoliata* in Alaska. Alas. Har. Exp. 5: 21. 1904.
- 269 *hortorum* Speg. (N. A. Ph. 167), on *Solanum melongenum* (cult.) in Wis. Wis. Ac. Sci. 17 (II): 867. 1914. New host.
- 270 *innumerabilis* Pk., on *Amelanchier* in Nebr. B. Tor. Cl. 36: 336. 1909.
- 271 *ivaecola* E. & E. (N. A. Ph. 12), on *Iva xanthiifolia* in N. D. M. 10: 218. 1918. New host.
- 272 *juliflora* E. & B., on pods of *Prosopis juliflora* in Tex. J. M. 8: 174. 1902.
- 273 *kalmicola* Schw. var. *berolinensisformis* Fairm., on *Kalmia latifolia* in N. Y. A. M. 8: 324. 1910.
- 274 *labruscae* Thuem. (N. A. Ph. 71), on *Vitis vulpina* in Iowa. M. 1: 269. On *Psedera quinquefolia* in N. D. M. 10: 218. 1918. Various other states. On *Ps. tricuspidata* in N. Y. Tor. 14: 210. 1914. On *P. vitacea* in Wis. Wis. Ac. Sci. 17 (II): 866. 1914. New hosts. Imperf. of *Guignardia Bidwellii* (Ell.) Viala & Ravaz. For full synonymy see N. Y. (Cor.) B. 293: 307.
- 275 *lantanooidis* Pk. (N. A. Ph. 94), on *Viburnum cassinoides* in N. Y. N. Y. Mus. B. 179: 29. 1915. New host.

- 276 *Liatridis* Davis, on *Liatris spicata* in Wis. **Wis. Ac. Sci.** 18 (I): 87. 1915.
- 277 *Liriodendri* Cke., emended. **J. M.** 13: 51. 1907.
- 278 *livida* E. & E. (N. A. Ph. 49), on *Quercus macrocarpa* in Wis. **Wis. Ac. Sci.** 18 (I): 87. 1915. New host.
- 279 *macroguttata* Earle, on *Desmodium Dillenii* and *D. sp.* in Ala. **B. Tor. B. C.** 25: 367. 1898.
- 280 *maculicola* Hals., on *Dracaena* in N. J. **N. J. R.** 14: 355. 1893.
- 281 *maculiformis* Sacc., on *Alnus rugosa* in N. Y. **N. Y. Mus. B.** 197: 49. Impf. of *Mycosphaerella maculiformis* (Pers.) Schr.
- 282 *mahoniaecola* Pass., on *Mahonia* in N. Y. **N. Y. Mus. B.** 167: 30. 1912.
- 283 *Medeolae* Dearn. & House, on *Medeola virginiana* in N. Y. **N. Y. Mus. B.** 179: 29. 1915.
- 284 *minima* (B. & C.) E. & E. (N. A. Ph. 1), on *Acer saccharum*, *A. saccharinum* and *A. spicatum*. **Wis. Ac. Sci.** 17 (II): 866 and 18 (I): 258. 1914 and 1915. New hosts.
- 285 *Mulgedii* Davis, on *Lactuca leucophaea* in Wis. **Wis. Ac. Sci.** 16 (II): 761. 1909. Davis later decided that this was probably a *Phoma*. **Wis. Ac. Sci.** 18 (I): 79. 1915.
- 286 *Myricae* Cke. (N. A. Ph. 72), on *Myrica carolinensis* in N. Y. **N. Y. Mus. B.** 188: 38. 1916. New host.
- 287 *nebulosa* Sacc., on *Silene noctiflora* in Wis. **Wis. Ac. Sci.** 17 (II): 865. 1914.
- 288 *Oakesiae* Dearn. & House, on *Uvularia (Oakesia) sessilifolia* in N. Y. **N. Y. Mus. B.** 179: 30. 1915.
- 289 *obscurans* (E. & E.) Fl. Tassi. **Bul. Lab. ed. Orto Bot. Siena** 5: 13. 1902. First described by Ellis & Everhart as *Phoma obscurans* on *Fragaria* (cult.) in Va. **Proc. Phil. Acad.** 1894: 357.
- 290 *orobella* Sacc., on *Lathyrus maritimus* in N. Y. **N. Y. Mus. B.** 179: 30. 1915.
- 291 *Oxalidis* Sacc., on *Oxalis stricta* in Wis. **Wis. Ac. Sci.** 17 (II): 866. 1914.
- 292 *Pachysandrae* Dearn. & House, on *Pachysandra procumbens* in N. C. **N. Y. Mus. B.** 179: 35. 1915.
- 293 *Padi* Brun, on *Prunus virginiana* in Canada. **A. M.** 11: 549. 1913.
- 294 *pallidior* Pk., on *Smilacina stellata* in N. Y. **N. Y. Mus. B.** 105: 26. 1905. = *P. cruenta* (Fr.) Kicks. var. *pallidior* (Pk.) Davis on *S. racemosa* and *S. stellata* in Wis. **Wis. Ac. Sci.** 17 (II): 865. 1914.
- 295 *paupercula* Pk., on *Amelanchier alnifolia* in Kans. **N. Y. Mus. B.** 150: 60. 1911.
- 296 *Paviae* Desm. (N. A. Ph. 122), = *Guignardia Aesculi* (Pk.) Stewart. **Phytopath.** 6: 5. 1916. *P. aesculicola* Sacc. (N. A. Ph. 123) regarded by Stewart as the spermagonial stage of the same species.
- 297 *phomiformis* Sacc. (N. A. Ph. 56) on *Quercus prinus* and *Q. prinoides* in N. Y. **N. Y. Mus. B.** 188: 50. On *Q. bicolor* in Wis. **Wis. Ac. Sci.** 18 (I): 258. 1915. New hosts.
- 298 *pirina* Sacc. = *Coniothyrium pirina* (Sacc.) Sheldon. **Torreyia**, July, 1907. See also **Sci. (II)** 36: 155-157. 1912.

- 299 *Pitcheriana* Fairm., on *Heliopsis Pitcheriana* (cult.) in N. Y. A. M. 8: 324. 1910.
- 300 *prunicola* Sacc. (N. A. Ph. 45), on *Prunus nigra* in Wis. Wis. Ac. Sc. 17 (II): 866. 1914. New host.
- 301 *Psoraleae* (Cke.) Fl. Tassi, on *Psoralea*. Described as *Phoma Psoralea* Cke. Bul. Lab. ed Orto Bot. Siena 5: 13. 1902.
- 302 *putrificiens* Shear, on *Vaccinium macrocarpum* in N. J. B. Tor. B. Cl. 34: 307. 1907.
- 303 *Quercus* Sacc. & Speng., on *Quercus alba* and *Q. macrocarpa* in Wis. Wis. Ac. Sc. 17 (II): 865. 1914.
- 304 *raui* (Pk.) Dearn. & House, on *Artemisia scopulorum* in Col. N. Y. Mus. B. 179: 36. 1915. Synonymy given. Previously called *Sphaeropsis* by Peck.
- 305 *renouana* Sacc. and Roum., on *Typha latifolia* in Wis. Wis. Ac. Sc. 17 (II): 864. 1914.
- 306 *Rhexiae* Dearn. & House, on *Rhexia ciliosa* in Fla. N. Y. Mus. B. 179: 35. 1915.
- 307 *Richardsoniae* E. & E., on *Richardsonia scabra* in Ala. J. M. 8: 62. 1902.
- 308 *Sassafras* Cke., emended, J. M. 13: 53. 1907.
- 309 *sicyna* Sacc., on *Sicyos angulatus* in N. Y. A. M. 10: 343. 1908.
- 310 *smilicina* (Pk.) Dearn., should replace *P. Smilactis* E. & M. (N. A. Ph. 221) M. 9: 351. 1917. Full synonymy given. On *Smilax rotundifolia* in N. Y. Torrey 14: 210. 1914.
- 311 *solitaria* E. & E. (N. A. Ph. 104), on *Pyrus Malus* throughout the central states. Sci. (II) 26: 183. 1907. New host. The specific name given in N. A. Ph. is evidently incorrectly spelled.
- 312 *Steironematis* Dearn. & House, on *Steironema ciliatum* in N. Y. N. Y. Mus. B. 188: 38. 1916.
- 313 *subtilis* Pk., on *Carya* in N. Y. N. Y. Mus. B. 150: 36. 1911.
- 314 *Syriaca* Sacc., on *Hibiscus syriacus* in N. Y. J. M. 13: 69. 1907.
- 315 *Syringae* West, on *Syringa vulgaris* in Wis. Wis. Ac. Sc. 17 (II): 867. 1914.
- 316 *tabifica* Prill. See *P. Betae*.
- 317 *tineola* Sacc. on *Viburnum pubescens* in Wis. Wis. Ac. Sc. 17 (II): 867. 1914.
- 318 *Trillii* E. & E. (N. A. Ph. 146), on *Trillium cernuum* in Wis. Wis. Ac. Sc. 17 (II): 865. 1914. New host.
- 319 *typhina* Sacc. on *Typha* in N. Y. J. M. 13: 69. 1907.
- 320 *verbenicola* Tharp, on *Verbena bipinnatifida* in Tex. M. 9: 120. 1917. This specific name is untenable because previously used, cf. *P. verbencicola* Martin, J. M. 2: 26. 1886.
- 321 *Verbesinae* Heald & Wolf, on *Verbesina texana* in Tex. M. 3: 8. 1911.
- 322 *virginiana* (Ell. & Hals.) Fl. Tassi. The correct name for *Phoma virginiana* E. & H. Bul. Lab. ed Orto Bot. Siena 5: 13. 1902.
- 323 *Medicaginis* Fckl. on alfalfa in the central states. Impf. of *Pyrenopeziza Medicaginis* Fckl. Phytopath. 6: 102. 1916.

324 *straminella* Bres., on rhubarb, *Rheum Rhaponticum*, in Ind. and Ills. Ills. Exp. Sta. B. 213. 1919.

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